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=> s (optimal (s) product) and (cell (w) culture and cell (w) grow?) (s)((solute (w)  
stress) or stress or osmolar? or hyperton? and antibod? ad (dissolved (w) oxygen)  
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stress) or stress or osmolar? or hyperton?) and antibod? and (dissolved (w) oxygen)  
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L11	0	FILE	BIOTECHNO
L12	0	FILE	CABA
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L14	0	FILE	CAPLUS
L15	0	FILE	CEABA-VTB
L16	0	FILE	CEN
L17	0	FILE	CIN
L18	0	FILE	CONFSCI
L19	0	FILE	CROPB
L20	0	FILE	CROPU
L21	1	FILE	DISSABS
L22	0	FILE	DGENE
L23	0	FILE	DRUGB
L24	0	FILE	DRUGLAUNCH
L25	0	FILE	DRUGMONOG2
L26	0	FILE	DRUGNL
L27	0	FILE	DRUGU
L28	0	FILE	DRUGUPDATES
L29	0	FILE	EMBAL
L30	0	FILE	EMBASE
L31	0	FILE	ESBIOBASE
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH			
FIELD CODE - 'AND' OPERATOR ASSUMED 'OPTIMAL (S) PRODUCT?'			
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH			
FIELD CODE - 'AND' OPERATOR ASSUMED 'GROW? (S) (SOLUTE'			
L32	0	FILE	FEDRIP
L33	0	FILE	FOMAD
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L35	0	FILE	FROSTI
L36	0	FILE	FSTA
L37	0	FILE	GENBANK
L38	0	FILE	HEALSAFE
L39	0	FILE	IFIPAT
L40	0	FILE	JICST-EPLUS
L41	0	FILE	KOSMET
L42	0	FILE	LIFESCI
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L46	0	FILE	NTIS
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L49	0	FILE	PASCAL
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L52	0	FILE	PHARMAML
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L54	0	FILE	PHIN
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L70	0	FILE	IMSDRUGCONF

L71 0 FILE PAPERCHEM2  
L72 0 FILE POLLUAB  
L73 0 FILE SOLIDSTATE

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L74 8 (OPTIMAL (S) PRODUCT?) AND (CELL (W) CULTURE) AND CELL (W) GROW?  
(S) (SOLUTE (W) STRESS OR STRESS OR OSMOLAR? OR HYPERTON?) AND  
ANTIBOD? AND (DISSOLVED (W) OXYGEN)

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L75 8 DUP REM L74 (0 DUPLICATES REMOVED)

=> d l75 1-8 ibib abs

L75 ANSWER 1 OF 8 USPATFULL on STN

ACCESSION NUMBER: 2003:314463 USPATFULL  
TITLE: Human tumor necrosis factor--immunoglobulin(TNFR1-IgG1)  
chimera composition  
INVENTOR(S): Etcheverry, Tina, Berkeley, CA, United States  
Ryll, Thomas, San Mateo, CA, United States  
PATENT ASSIGNEE(S): Genetech, Inc., South San Francisco, CA, United States  
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6656466	B1	20031202
APPLICATION INFO.:	US 1995-470849		19950606 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Pak, Michael		
LEGAL REPRESENTATIVE:	Heller Ehrman White & McAuliffe, LLP		
NUMBER OF CLAIMS:	6		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	2 Drawing Figure(s); 2 Drawing Page(s)		
LINE COUNT:	1546		

AB The present invention relates to novel process for the preparation of  
glycoproteins by mammalian **cell culture** wherein the  
sialic acid content of the glycoprotein produced is controlled over a  
broad range of values by manipulating the **cell culture**  
environment. The invention provides for processes in which the sialic  
acid content of the glycoprotein is modified by changes in **cell**  
**culture** parameters which affect cell specific productivity.  
Preferred embodiments of the invention include **cell**  
**culture** processes in the osmolality of the **cell**  
**culture** is controlled as well as the concentration of a  
transcription enhancer during the production phase of the **cell**  
**culture**. The invention further provides for novel preparations  
of soluble type 1 tumor necrosis factor immunoglobulin G1 and their uses  
in the treatment of inflammatory or immune related disorders.

L75 ANSWER 2 OF 8 USPATFULL on STN

ACCESSION NUMBER: 2001:14259 USPATFULL  
TITLE: Polypeptide production in animal **cell**  
**culture**  
INVENTOR(S): Chen, Mary, Burlingame, CA, United States  
Forman, Lawrence W., Sunnyvale, CA, United States  
PATENT ASSIGNEE(S): Genentech, Inc., South San Francisco, CA, United States  
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6180401	B1	20010130
APPLICATION INFO.:	US 1998-73198		19980504 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1994-208888, filed on 10 Mar 1994, now patented, Pat. No. US 5856179		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Stole, Einar		
LEGAL REPRESENTATIVE:	Skjerven Morrill MacPherson LLP, Haliday, Emily M.		
NUMBER OF CLAIMS:	11		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	6 Drawing Figure(s); 3 Drawing Page(s)		
LINE COUNT:	1091		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method of producing a polypeptide in fed batch **cell culture** is provided which involves an initial **cell growth** phase and a distinct production phase. In the initial growth stage, animal cells having nucleic acid encoding the polypeptide are cultured at a starting osmolality of about 280-330 mOsm in the presence of a concentration of glucose controlled throughout the culturing to be within a range between about 0.01 and 1 g/L. This is followed by a production phase, where the cultured animal cells of the growth phase are inoculated at a cell seed density of at least 1.0.times.10.sup.6 cells/mL and the cells are cultured at a starting **osmolality** of about 400-600 mOsm in the presence of a concentration of glucose controlled throughout the culturing to be within a range between about 0.01 and 1 g/L. Preferably, the glutamine concentration in the **cell culture** medium is simultaneously controlled in order to curtail production of lactic acid and ammonia which result from unnecessarily high glutamine concentrations. During the growth phase, production of potentially detrimental metabolic waste products, such as lactic acid, is controlled thereby curtailing the increase of osmolality due to accumulation and neutralization of waste products. Thus, the **cell growth** can be improved. In the production phase, the **cell culture** conditions are modified in order to arrest or reduce **cell growth** and thereby direct nutrient utilization toward production, as opposed to **cell growth**. Overall, it is intended that the method results in an improvement in specific productivity, reduction in production run times and/or an increase in final product concentration.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L75 ANSWER 3 OF 8 PROMT COPYRIGHT 2003 Gale Group on STN

ACCESSION NUMBER: 2001:108915 PROMT  
 TITLE: The Processes.  
 SOURCE: BioPharm, (June 2000) Vol. 13, No. 6, pp. S18.  
 ISSN: 1040-8304.  
 PUBLISHER: Advanstar Communications, Inc.  
 DOCUMENT TYPE: Newsletter  
 LANGUAGE: English  
 WORD COUNT: 4848

\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

AB Bioprocessing covers two phases of activity: upstream processes (preparation of media and organisms) and downstream processes (product recovery and purification), as illustrated by the graphic on page 9. The bioreactor stage is the heart of upstream bioprocessing, where nutrients are converted into products.

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Duluth, MN 55082.

L75 ANSWER 4 OF 8 USPATFULL on STN

ACCESSION NUMBER: 1999:163441 USPATFULL  
TITLE: Micro hollow fiber bioreactor  
INVENTOR(S): Gramer, Michael J., Lino Lakes, MN, United States  
PATENT ASSIGNEE(S): Cellex Biosciences, Inc., Coon Rapids, MN, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6001585		19991214
APPLICATION INFO.:	US 1997-970332		19971114 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Naff, David M.		
LEGAL REPRESENTATIVE:	Schwegman, Lundberg, Woessner & Kluth, P.A.		
NUMBER OF CLAIMS:	16		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	18 Drawing Figure(s); 12 Drawing Page(s)		
LINE COUNT:	995		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A "micro" hollow fiber bioreactor and method of use are provided for use in screening different cell lines and process conditions. The bioreactor includes the use of an oxygen permeable (e.g., silicone rubber) tube sealably containing a hollow fiber bundle, in order to create an extracapillary space to provide a medium reservoir and an intracapillary space for the growth of cells. The bioreactor avoids the need for oxygen or medium pumps or supply systems, and permits multiple cell lines, and/or multiple conditions to be evaluated simultaneously. Preferably, the tube has an oxygen permeability of between about 100.times.10.sup.-10 to about 10,000.times.10.sup.-10 (cc-mm/sec-cm.sup.2 -cm Hg), the extracapillary space provides a medium reservoir of about 1 ml to about 100 ml, the intracapillary space provides a **cell culture** volume of about 0.1 ml to about 1 ml, the hollow fibers have a molecular weight cut off from about 1 kD to about 1,000 kD and a pore size of from about 0.01 microns to about 5 microns, and the tube contains about 1 to about 1000 hollow fibers.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L75 ANSWER 5 OF 8 USPATFULL on STN

ACCESSION NUMBER: 1999:1516 USPATFULL  
TITLE: Polypeptide production in animal **cell culture**  
INVENTOR(S): Chen, Mary, Burlingame, CA, United States  
Forman, Lawrence W., Sunnyvale, CA, United States  
PATENT ASSIGNEE(S): Genentech, Inc., South San Francisco, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5856179		19990105
APPLICATION INFO.:	US 1994-208888		19940310 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Hendricks, Keith D.		
LEGAL REPRESENTATIVE:	Lee, Wendy M.		
NUMBER OF CLAIMS:	26		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	6 Drawing Figure(s); 3 Drawing Page(s)		
LINE COUNT:	1127		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method of producing a polypeptide in fed batch **cell**



**culture** is provided which involves an initial **cell growth** phase and a distinct production phase. In the initial growth stage, animal cells having nucleic acid encoding the polypeptide are cultured at a starting osmolality of about 280-330 mOsm in the presence of a concentration of glucose controlled throughout the culturing to be within a range between about 0.01 and 1 g/L. This is followed by a production phase, where the cultured animal cells of the growth phase are inoculated at a cell seed density of at least 1.0.times.10.sup.6 cells/mL and the cells are cultured at a starting **osmolality** of about 400-600 mOsm in the presence of a concentration of glucose controlled throughout the culturing to be within a range between about 0.01 and 1 g/L. Preferably, the glutamine concentration in the **cell culture** medium is simultaneously controlled in order to curtail production of lactic acid and ammonia which result from unnecessarily high glutamine concentrations. During the growth phase, production of potentially detrimental metabolic waste products, such as lactic acid, is controlled thereby curtailing the increase of osmolality due to accumulation and neutralization of waste products. Thus, the **cell growth** can be improved. In the production phase, the **cell culture** conditions are modified in order to arrest or reduce **cell growth** and thereby direct nutrient utilization toward production, as opposed to **cell growth**. Overall, it is intended that the method results in an improvement in specific productivity, reduction in production run times and/or an increase in final product concentration.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L75 ANSWER 6 OF 8 USPATFULL on STN

ACCESSION NUMBER: 1998:19596 USPATFULL

TITLE: Mammalian **cell culture** process for producing a tumor necrosis factor receptor immunoglobulin chimeric protein

INVENTOR(S): Etcheverry, Tina, Berkeley, CA, United States  
Ryll, Thomas, San Mateo, CA, United States

PATENT ASSIGNEE(S): Genentech, Inc., South San Francisco, CA, United States  
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5721121		19980224
APPLICATION INFO.:	US 1995-466845		19950606 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Walsh, Stephen		
ASSISTANT EXAMINER:	Pak, Michael D.		
LEGAL REPRESENTATIVE:	Heller Ehrman White & McAuliffe		
NUMBER OF CLAIMS:	8		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	2 Drawing Figure(s); 2 Drawing Page(s)		
LINE COUNT:	1576		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel process for the preparation of glycoproteins by mammalian **cell culture** wherein the sialic acid content of the glycoprotein produced is controlled over a broad range of values by manipulating the **cell culture** environment. The invention provides for processes in which the sialic acid content of the glycoprotein is modified by changes in **cell culture** parameters which affect cell specific productivity. Preferred embodiments of the invention include **cell culture** processes in the osmolality of the **cell culture** is controlled as well as the concentration of a transcription enhancer during the production phase of the **cell culture**. The invention further provides for novel preparations

of soluble type 1 tumor necrosis factor immunoglobulin G1 and their uses in the treatment of inflammatory or immune related disorders.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L75 ANSWER 7 OF 8 USPATFULL on STN

ACCESSION NUMBER: 1998:1651 USPATFULL  
TITLE: Mammalian **cell culture** process  
INVENTOR(S): Etcheverry, Tina, Berkeley, CA, United States  
Ryll, Thomas, San Mateo, CA, United States  
PATENT ASSIGNEE(S): Genentech, Inc., South San Francisco, CA, United States  
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5705364		19980106
APPLICATION INFO.:	US 1995-469348		19950606 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Saunders, David		
ASSISTANT EXAMINER:	Cech, Emma		
LEGAL REPRESENTATIVE:	Heller Ehrman White & McAuliffe		
NUMBER OF CLAIMS:	21		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 2 Drawing Page(s)		
LINE COUNT:	1610		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel process for the preparation of glycoproteins by mammalian **cell culture** wherein the sialic acid content of the glycoprotein produced is controlled over a broad range of values by manipulating the **cell culture** environment. The invention provides for processes in which the sialic acid content of the glycoprotein is modified by changes in **cell culture** parameters which affect cell specific productivity. Preferred embodiments of the invention include **cell culture** processes in the osmolality of the **cell culture** is controlled as well as the concentration of a transcription enhancer during the production phase of the **cell culture**. The invention further provides for novel preparations of soluble type 1 tumor necrosis factor immunoglobulin G1 and their uses in the treatment of inflammatory or immune related disorders.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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ACCESSION NUMBER: 90:8077 DISSABS Order Number: AAR9023613  
TITLE: KINETIC CHARACTERIZATION OF HYBRIDOMA GROWTH, METABOLISM, AND MONOCLONAL **ANTIBODY** PRODUCTION RATES  
AUTHOR: OZTURK, SADETTIN S. [PH.D.]; PALSSON, BERNHARD O. [advisor]  
CORPORATE SOURCE: THE UNIVERSITY OF MICHIGAN (0127)  
SOURCE: Dissertation Abstracts International, (1990) Vol. 51, No. 4B, p. 1953. Order No.: AAR9023613. 357 pages.  
DOCUMENT TYPE: Dissertation  
FILE SEGMENT: DAI  
LANGUAGE: English  
ENTRY DATE: Entered STN: 19921118  
Last Updated on STN: 19921118

AB Monoclonal **antibodies** produced by hybridoma cells are one of the most important **products** of biotechnology. **Optimal** design and development of bioreactors require a quantitative understanding of cell growth, metabolism, and **antibody production** rates. This thesis is a comprehensive investigation of the influence of culture environment on these biological variables.  
Both the extent of **cell growth** and the final

**antibody** concentrations were influenced by the inoculum size, but specific growth, metabolic, and **antibody production** rates were less sensitive to initial cell density. Short-term exposure to new serum concentrations influenced the growth rate in a Michaelian fashion, but did not alter the cell metabolism and **antibody production** rate. When cells were cultured in low serum-containing media for prolonged periods of time (6 months), they adapted and both growth and **antibody** titer were improved. However, for one cell line, adaptation to low serum resulted in a gradual loss of **antibody productivity**. We have determined that this loss is due to the appearance of a sub-population that has lower internal and surface **antibody** content. **Cell growth** was inhibited at 100% air saturation and at very low **dissolved oxygen** concentrations leading to an **optimal** range between 25 and 50% air saturation. We have also demonstrated that the cells used in this study could grow and produce **antibody** under total anaerobic conditions, which has important implications for the design of high density cultures. The **antibody production** rate was unaffected by the **dissolved oxygen** concentration. **Cell growth** and **antibody production** were **optimal** at pH 7.2 while the specific **antibody production** rate, though unaltered under alkaline conditions, was 2-3 fold higher under acidic conditions. Elevated media **osmolarity** also influenced the specific **antibody production** rate. Both ammonia and lactate inhibit growth, but do not accelerate cell death. Cell metabolism was influenced by lactate and ammonia levels. However, the specific **antibody production** rate was unaffected.

It is hoped that the results presented in this thesis will contribute significantly to a better understanding of cell physiology in bioreactor environments, and provide coherent design principles for the optimization of mammalian **cell culture** technology.

# WEST Search History

DATE: Thursday, December 04, 2003

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side			result set
	<i>DB=USPT,PGPB,EPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i>		
L4	(cell adj growth) same ((solute adj stress) or stress or osmolar\$) same(product\$ and antibod\$)	15	L4
L3	(cell adj growth) same ((solute adj stress) or stress or osmolar\$) and (product\$ and antibod\$)	346	L3
L2	cell adj culture and (cell adj growth) same ((solute adj stress) or stress or osmolar\$)	319	L2
L1	cell same culture and (cell adj growth) and ((solute adj stress) or stress or osmolar\$)	5143	L1

END OF SEARCH HISTORY

**WEST**[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 15 of 15 returned.****1. Document ID: US 20030113798 A1**

L4: Entry 1 of 15

File: PGPB

Jun 19, 2003

PGPUB-DOCUMENT-NUMBER: 20030113798

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030113798 A1

TITLE: Antigenic peptides, such as for G protein-coupled receptors (GPCRS), antibodies thereto, and systems for identifying such antigenic peptides

PUBLICATION-DATE: June 19, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Burmer, Glenna C.	Seattle	WA	US	
Roush, Christine L.	Seattle	WA	US	
Brown, Joseph P.	Seattle	WA	US	

US-CL-CURRENT: 435/7.1; 435/7.92, 435/7.93, 530/350, 530/388.22[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[KIMC](#) | [Draw Desc](#) | [Image](#)**2. Document ID: US 20030059791 A1**

L4: Entry 2 of 15

File: PGPB

Mar 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030059791

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030059791 A1

TITLE: Method for evaluating DNA probes position on substrate

PUBLICATION-DATE: March 27, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Rokutan, Kazuhito	Osaka		JP	
Tomita, Hiroyuki	Tachikawa		JP	
Saito, Toshiro	Hatoyama		JP	

US-CL-CURRENT: 435/6; 435/287.2, 702/20[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[KIMC](#) | [Draw Desc](#) | [Image](#)**3. Document ID: US 20030054545 A1**

L4: Entry 3 of 15

File: PGPB

Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030054545  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030054545 A1

TITLE: Cell and tissue culture modeling device and apparatus and method of using same

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Janigro, Damir	Cleveland Heights	OH	US	
McAllister, Mark S.	Saginaw	MI	US	

US-CL-CURRENT: 435/297.4; 210/321.8, 435/29, 435/32, 435/400

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMOC	Draw Desc	Image
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4. Document ID: US 20020119530 A1

L4: Entry 4 of 15

File: PGPB

Aug 29, 2002

PGPUB-DOCUMENT-NUMBER: 20020119530  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020119530 A1

TITLE: Method of increasing product expression through solute stress

PUBLICATION-DATE: August 29, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Maiorella, Brian	Oakland	CA	US	
Inlow, Duane	Oakland	CA	US	
Howarth, William	Richmond	CA	US	

US-CL-CURRENT: 435/70.21; 435/366

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMOC	Draw Desc	Image
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5. Document ID: US 20020058804 A1

L4: Entry 5 of 15

File: PGPB

May 16, 2002

PGPUB-DOCUMENT-NUMBER: 20020058804  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020058804 A1

TITLE: Prodrug activation using catalytic antibodies

PUBLICATION-DATE: May 16, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Barbas, Carlos F. III	Solana Beach	CA	US	
Shabat, Doron	Tel Aviv	CA	IL	
Rader, Christoph	San Diego	CA	US	
List, Benjamin	San Diego	CA	US	
Lerner, Richard A.	La Jolla		US	

US-CL-CURRENT: 536/53; 546/330, 546/335, 548/567, 560/157, 560/24

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc	Image
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## 6. Document ID: US 20020001629 A1

L4: Entry 6 of 15

File: PGPB

Jan 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020001629

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020001629 A1

TITLE: Compositions and methods relating to prevention of chemotherapy-induced alopecia

PUBLICATION-DATE: January 3, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Voellmy, Richard W.	Miami	FL	US	

US-CL-CURRENT: 424/620; 424/642, 424/650, 514/2, 514/44, 514/690

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc	Image
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## 7. Document ID: US 6610269 B1

L4: Entry 7 of 15

File: USPT

Aug 26, 2003

US-PAT-NO: 6610269

DOCUMENT-IDENTIFIER: US 6610269 B1

TITLE: Contrast agents

DATE-ISSUED: August 26, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Klaveness; Jo	Oslo			NO
Naevestad; Anne	Oslo			NO
Tolleshaug; Helge	Oslo			NO

US-CL-CURRENT: 424/9.1; 424/1.11, 424/1.65, 424/1.69

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc	Image
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## 8. Document ID: US 6268488 B1

L4: Entry 8 of 15

File: USPT

Jul 31, 2001

US-PAT-NO: 6268488

DOCUMENT-IDENTIFIER: US 6268488 B1

TITLE: Prodrug activation using catalytic antibodies

DATE-ISSUED: July 31, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barbas, III; Carlos F.	Del Mar	CA	92014	
Shabat; Doron	San Diego	CA	92122	
Rader; Christoph	San Diego	CA	92103	
List; Benjamin	San Diego	CA	92102	
Lerner; Richard A.	La Jolla	CA	92037	

US-CL-CURRENT: 536/6.4; 548/204, 549/375, 562/463, 568/448

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMIC	Draw Desc	Image
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## 9. Document ID: US 6238891 B1

L4: Entry 9 of 15

File: USPT

May 29, 2001

US-PAT-NO: 6238891

DOCUMENT-IDENTIFIER: US 6238891 B1

TITLE: Method of increasing product expression through solute stress

DATE-ISSUED: May 29, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Maiorella; Brian	Oakland	CA		
Inlow; Duane	Oakland	CA		
Howarth; William	Richmond	CA		

US-CL-CURRENT: 435/70.21; 435/252.3, 435/326, 435/69.1, 435/70.1, 530/386, 530/388.1, 530/388.15, 530/412

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMIC	Draw Desc	Image
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## 10. Document ID: US 6197547 B1

L4: Entry 10 of 15

File: USPT

Mar 6, 2001

US-PAT-NO: 6197547

DOCUMENT-IDENTIFIER: US 6197547 B1

TITLE: Trigger factor expression plasmids

DATE-ISSUED: March 6, 2001



## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sogo; Kazuyo	Kyoto			JP
Yanagi; Hideki	Takarazuka			JP
Yura; Takashi	Kyoto			JP

US-CL-CURRENT: 435/69.1; 435/252.3, 435/252.33, 435/320.1, 536/23.1, 536/24.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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## 11. Document ID: US 6159708 A

L4: Entry 11 of 15

File: USPT

Dec 12, 2000

US-PAT-NO: 6159708

DOCUMENT-IDENTIFIER: US 6159708 A

TITLE: Chaperone expression plasmids

DATE-ISSUED: December 12, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sogo; Kazuyo	Kyoto			JP
Yanagi; Hideki	Takarazuka			JP
Yura; Takashi	Kyoto			JP

US-CL-CURRENT: 435/69.1; 435/252.33, 435/320.1, 435/488, 536/23.1, 536/23.2,  
536/23.5, 536/23.51, 536/23.52, 536/23.53, 536/23.6, 536/23.7, 536/23.72, 536/24.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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## 12. Document ID: US 6001585 A

L4: Entry 12 of 15

File: USPT

Dec 14, 1999

US-PAT-NO: 6001585

DOCUMENT-IDENTIFIER: US 6001585 A

TITLE: Micro hollow fiber bioreactor

DATE-ISSUED: December 14, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gramer; Michael J.	Lino Lakes	MN		

US-CL-CURRENT: 435/29; 435/182, 435/243, 435/289.1, 435/297.1, 435/297.4, 435/325,  
435/382, 435/400, 435/41

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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## 13. Document ID: US 5232848 A

L4: Entry 13 of 15

File: USPT

Aug 3, 1993

US-PAT-NO: 5232848

DOCUMENT-IDENTIFIER: US 5232848 A

TITLE: Basal nutrient medium for cell culture

DATE-ISSUED: August 3, 1993

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wolfe; Richard A.	Ellisville	MO		
Heifetz; Aaron H.	Columbia	MD		
Custer; Linda M.	Ellicott City	MD		

US-CL-CURRENT: 435/406; 435/407

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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## 14. Document ID: WO 8904867 A1

L4: Entry 14 of 15

File: EPAB

Jun 1, 1989

PUB-NO: WO008904867A1

DOCUMENT-IDENTIFIER: WO 8904867 A1

TITLE: METHOD OF INCREASING PRODUCT EXPRESSION THROUGH SOLUTE STRESS

PUBN-DATE: June 1, 1989

## INVENTOR-INFORMATION:

NAME	COUNTRY
MAIORELLA, BRIAN	US
INLOW, DUANE	US
HOWARTH, WILLIAM	US

US-CL-CURRENT: 435/70.21

INT-CL (IPC): C12N 5/00; C12P 21/00

EUR-CL (EPC): C12N005/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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## 15. Document ID: US 20020150920 A1 WO 200183753 A2 US 20020028465 A1 AU 200159420 A

L4: Entry 15 of 15

File: DWPI

Oct 17, 2002

DERWENT-ACC-NO: 2002-041495

DERWENT-WEEK: 200270

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TITLE: Novel isolated polypeptide of nucleotide binding site useful as a vaccine for preventing or treating diseases e.g. cancer, stroke, Alzheimer's disease, Parkinson's disease, myocardial infarction, Crohn's disease

INVENTOR: BERTIN, J; BLATCHER, M ; WANG, W

PRIORITY-DATA: 2000US-201464P (May 3, 2000), 2001US-0848035 (May 3, 2001),

2001US-0986224 (October 22, 2001)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20020150920 A1	October 17, 2002		000	C12Q001/68
WO 200183753 A2	November 8, 2001	E	149	C12N015/12
US 20020028465 A1	March 7, 2002		000	C07K016/00
AU 200159420 A	November 12, 2001		000	C12N015/12

INT-CL (IPC): C07 H 21/02; C07 H 21/04; C07 K 1/00; C07 K 14/00; C07 K 14/47; C07 K 16/00; C07 K 16/18; C07 K 17/00; C12 N 1/20; C12 N 5/00; C12 N 5/02; C12 N 5/06; C12 N 9/00; C12 N 15/10; C12 N 15/12; C12 N 15/62; C12 P 19/34; C12 P 21/02; C12 P 21/06; C12 Q 1/68; G01 N 33/53

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWC	Draw Desc	Image
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Term	Documents
CELL	814269
CELLS	599529
GROWTH	418885
GROWTHS	5834
SOLUTE	20513
SOLUTES	17100
STRESS	407108
STRESSES	172775
OSMOLAR\$	0
OSMOLAR	277
((CELL ADJ GROWTH) SAME ((SOLUTE ADJ STRESS) OR STRESS OR OSMOLAR\$) SAME(PRODUCT\$ AND ANTIBOD\$)).USPT,PGPB,EPAB,DWPI,TDBD.	15

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**WEST**[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 20 of 20 returned.****1. Document ID: US 20030113798 A1**

L7: Entry 1 of 20

File: PGPB

Jun 19, 2003

PGPUB-DOCUMENT-NUMBER: 20030113798

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030113798 A1

TITLE: Antigenic peptides, such as for G protein-coupled receptors (GPCRS), antibodies thereto, and systems for identifying such antigenic peptides

PUBLICATION-DATE: June 19, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Burmer, Glenna C.	Seattle	WA	US	
Roush, Christine L.	Seattle	WA	US	
Brown, Joseph P.	Seattle	WA	US	

US-CL-CURRENT: [435/7.1](#); [435/7.92](#), [435/7.93](#), [530/350](#), [530/388.22](#)

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>
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<a href="#">KWC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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**2. Document ID: US 20030059791 A1**

L7: Entry 2 of 20

File: PGPB

Mar 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030059791

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030059791 A1

TITLE: Method for evaluating DNA probes position on substrate

PUBLICATION-DATE: March 27, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Rokutan, Kazuhito	Osaka		JP	
Tomita, Hiroyuki	Tachikawa		JP	
Saito, Toshiro	Hatoyama		JP	

US-CL-CURRENT: [435/6](#); [435/287.2](#), [702/20](#)

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>
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<a href="#">KWC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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**3. Document ID: US 20030054545 A1**

L7: Entry 3 of 20

File: PGPB

Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030054545  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030054545 A1

TITLE: Cell and tissue culture modeling device and apparatus and method of using same

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Janigro, Damir	Cleveland Heights	OH	US	
McAllister, Mark S.	Saginaw	MI	US	

US-CL-CURRENT: 435/297.4; 210/321.8, 435/29, 435/32, 435/400

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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4. Document ID: US 20020119530 A1

L7: Entry 4 of 20

File: PGPB

Aug 29, 2002

PGPUB-DOCUMENT-NUMBER: 20020119530  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020119530 A1

TITLE: Method of increasing product expression through solute stress

PUBLICATION-DATE: August 29, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Maiorella, Brian	Oakland	CA	US	
Inlow, Duane	Oakland	CA	US	
Howarth, William	Richmond	CA	US	

US-CL-CURRENT: 435/70.21; 435/366

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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5. Document ID: US 20020058804 A1

L7: Entry 5 of 20

File: PGPB

May 16, 2002

PGPUB-DOCUMENT-NUMBER: 20020058804  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020058804 A1

TITLE: Prodrug activation using catalytic antibodies

PUBLICATION-DATE: May 16, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Barbas, Carlos F. III	Solana Beach	CA	US	
Shabat, Doron	Tel Aviv	CA	IL	
Rader, Christoph	San Diego	CA	US	
List, Benjamin	San Diego	CA	US	
Lerner, Richard A.	La Jolla		US	

US-CL-CURRENT: 536/53; 546/330, 546/335, 548/567, 560/157, 560/24

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc	Image
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6. Document ID: US 20020001629 A1

L7: Entry 6 of 20

File: PGPB

Jan 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020001629  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020001629 A1

TITLE: Compositions and methods relating to prevention of chemotherapy-induced alopecia

PUBLICATION-DATE: January 3, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Voellmy, Richard W.	Miami	FL	US	

US-CL-CURRENT: 424/620; 424/642, 424/650, 514/2, 514/44, 514/690

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc	Image
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7. Document ID: US 6610269 B1

L7: Entry 7 of 20

File: USPT

Aug 26, 2003

US-PAT-NO: 6610269  
DOCUMENT-IDENTIFIER: US 6610269 B1

TITLE: Contrast agents

DATE-ISSUED: August 26, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Klaveness; Jo	Oslo			NO
Naevestad; Anne	Oslo			NO
Tolleshaug; Helge	Oslo			NO

US-CL-CURRENT: 424/9.1; 424/1.11, 424/1.65, 424/1.69

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC	Draw Desc	Image
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## 8. Document ID: US 6268488 B1

L7: Entry 8 of 20

File: USPT

Jul 31, 2001

US-PAT-NO: 6268488

DOCUMENT-IDENTIFIER: US 6268488 B1

TITLE: Prodrug activation using catalytic antibodies

DATE-ISSUED: July 31, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barbas, III; Carlos F.	Del Mar	CA	92014	
Shabat; Doron	San Diego	CA	92122	
Rader; Christoph	San Diego	CA	92103	
List; Benjamin	San Diego	CA	92102	
Lerner; Richard A.	La Jolla	CA	92037	

US-CL-CURRENT: 536/6.4; 548/204, 549/375, 562/463, 568/448

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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## 9. Document ID: US 6238891 B1

L7: Entry 9 of 20

File: USPT

May 29, 2001

US-PAT-NO: 6238891

DOCUMENT-IDENTIFIER: US 6238891 B1

TITLE: Method of increasing product expression through solute stress

DATE-ISSUED: May 29, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Maiorella; Brian	Oakland	CA		
Inlow; Duane	Oakland	CA		
Howarth; William	Richmond	CA		

US-CL-CURRENT: 435/70.21; 435/252.3, 435/326, 435/69.1, 435/70.1, 530/386,  
530/388.1, 530/388.15, 530/412

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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## 10. Document ID: US 6197547 B1

L7: Entry 10 of 20

File: USPT

Mar 6, 2001

US-PAT-NO: 6197547

DOCUMENT-IDENTIFIER: US 6197547 B1

TITLE: Trigger factor expression plasmids

DATE-ISSUED: March 6, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sogo; Kazuyo	Kyoto			JP
Yanagi; Hideki	Takarazuka			JP
Yura; Takashi	Kyoto			JP

US-CL-CURRENT: 435/69.1; 435/252.3, 435/252.33, 435/320.1, 536/23.1, 536/24.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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## 11. Document ID: US 6159708 A

L7: Entry 11 of 20

File: USPT

Dec 12, 2000

US-PAT-NO: 6159708

DOCUMENT-IDENTIFIER: US 6159708 A

TITLE: Chaperone expression plasmids

DATE-ISSUED: December 12, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sogo; Kazuyo	Kyoto			JP
Yanagi; Hideki	Takarazuka			JP
Yura; Takashi	Kyoto			JP

US-CL-CURRENT: 435/69.1; 435/252.33, 435/320.1, 435/488, 536/23.1, 536/23.2,  
536/23.5, 536/23.51, 536/23.52, 536/23.53, 536/23.6, 536/23.7, 536/23.72, 536/24.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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## 12. Document ID: US 6001585 A

L7: Entry 12 of 20

File: USPT

Dec 14, 1999

US-PAT-NO: 6001585

DOCUMENT-IDENTIFIER: US 6001585 A

TITLE: Micro hollow fiber bioreactor

DATE-ISSUED: December 14, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gramer; Michael J.	Lino Lakes	MN		

US-CL-CURRENT: 435/29; 435/182, 435/243, 435/289.1, 435/297.1, 435/297.4, 435/325,  
435/382, 435/400, 435/41

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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## 13. Document ID: US 5484596 A



L7: Entry 13 of 20

File: USPT

Jan 16, 1996

US-PAT-NO: 5484596

DOCUMENT-IDENTIFIER: US 5484596 A

TITLE: Active specific immunotherapy

DATE-ISSUED: January 16, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hanna, Jr.; Michael G.	Frederick	MD		
Hoover, Jr.; Herbert C.	Hingham	MA		
Peters; Leona C.	Frederick	MD		

US-CL-CURRENT: 424/277.1; 424/138.1, 424/93.1, 424/93.7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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## 14. Document ID: US 5232848 A

L7: Entry 14 of 20

File: USPT

Aug 3, 1993

US-PAT-NO: 5232848

DOCUMENT-IDENTIFIER: US 5232848 A

TITLE: Basal nutrient medium for cell culture

DATE-ISSUED: August 3, 1993

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wolfe; Richard A.	Ellisville	MO		
Heifetz; Aaron H.	Columbia	MD		
Custer; Linda M.	Ellicott City	MD		

US-CL-CURRENT: 435/406; 435/407

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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## 15. Document ID: US 5180814 A

L7: Entry 15 of 20

File: USPT

Jan 19, 1993

US-PAT-NO: 5180814

DOCUMENT-IDENTIFIER: US 5180814 A

TITLE: Tumor specific monoclonal antibodies

DATE-ISSUED: January 19, 1993

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hanna, Jr.; Michael	Frederick	MD		
Haspel; Martin V.	Silver Spring	MD		
Hoover, Jr.; Herbert C.	Port Jefferson	NY		

US-CL-CURRENT: 530/388.8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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## 16. Document ID: US 5106738 A

L7: Entry 16 of 20

File: USPT

Apr 21, 1992

US-PAT-NO: 5106738

DOCUMENT-IDENTIFIER: US 5106738 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Tumor specific monoclonal antibodies

DATE-ISSUED: April 21, 1992

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hanna, Jr.; Michael G.	Frederick	MD		
Haspel, Jr.; Martin V.	Silver Spring	MD		
Hoover, Jr.; Herbert C.	Hingham	MA		

US-CL-CURRENT: 435/458; 435/467

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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## 17. Document ID: US 4997762 A

L7: Entry 17 of 20

File: USPT

Mar 5, 1991

US-PAT-NO: 4997762

DOCUMENT-IDENTIFIER: US 4997762 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Tumor associated monocloal antibodies derived from human B-cell line

DATE-ISSUED: March 5, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hanna, Jr.; Michael	Frederick	MD		
Haspel; Martin V.	Silver Spring	MD		
Hoover, Jr.; Herbert C.	Port Jefferson	NY		

US-CL-CURRENT: 435/344; 424/142.1, 424/155.1, 424/808, 530/388.15, 530/388.8,  
530/808, 530/828, 530/865

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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**18. Document ID: US 4828991 A**

L7: Entry 18 of 20

File: USPT

May 9, 1989

US-PAT-NO: 4828991

DOCUMENT-IDENTIFIER: US 4828991 A

TITLE: Tumor specific monoclonal antibodies

DATE-ISSUED: May 9, 1989

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hanna, Jr.; Michael	Frederick	MD		
Haspel; Martin V.	Silver Spring	MD		
Hoover, Jr.; Herbert C.	Port Jefferson	NY		

US-CL-CURRENT: 435/70.21; 435/381, 435/451, 436/548, 436/813, 530/388.15, 530/388.8,  
530/391.3, 530/865

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMIC	Draw Desc	Image
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**19. Document ID: WO 8904867 A1**

L7: Entry 19 of 20

File: EPAB

Jun 1, 1989

PUB-NO: WO008904867A1

DOCUMENT-IDENTIFIER: WO 8904867 A1

TITLE: METHOD OF INCREASING PRODUCT EXPRESSION THROUGH SOLUTE STRESS

PUBN-DATE: June 1, 1989

## INVENTOR-INFORMATION:

NAME	COUNTRY
MAIORELLA, BRIAN	US
INLOW, DUANE	US
HOWARTH, WILLIAM	US

US-CL-CURRENT: 435/70.21

INT-CL (IPC): C12N 5/00; C12P 21/00

EUR-CL (EPC): C12N005/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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**20. Document ID: US 20020150920 A1 WO 200183753 A2 US 20020028465 A1 AU 200159420 A**

L7: Entry 20 of 20

File: DWPI

Oct 17, 2002

DERWENT-ACC-NO: 2002-041495

DERWENT-WEEK: 200270

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TITLE: Novel isolated polypeptide of nucleotide binding site useful as a vaccine for preventing or treating diseases e.g. cancer, stroke, Alzheimer's disease, Parkinson's disease, myocardial infarction, Crohn's disease

INVENTOR: BERTIN, J; BLATCHER, M ; WANG, W

PRIORITY-DATA: 2000US-201464P (May 3, 2000), 2001US-0848035 (May 3, 2001),  
2001US-0986224 (October 22, 2001)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20020150920 A1	October 17, 2002		000	C12Q001/68
WO 200183753 A2	November 8, 2001	E	149	C12N015/12
US 20020028465 A1	March 7, 2002		000	C07K016/00
AU 200159420 A	November 12, 2001		000	C12N015/12

INT-CL (IPC): C07 H 21/02; C07 H 21/04; C07 K 1/00; C07 K 14/00; C07 K 14/47; C07 K 16/00; C07 K 16/18; C07 K 17/00; C12 N 1/20; C12 N 5/00; C12 N 5/02; C12 N 5/06; C12 N 9/00; C12 N 15/10; C12 N 15/12; C12 N 15/62; C12 P 19/34; C12 P 21/02; C12 P 21/06; C12 Q 1/68; G01 N 33/53

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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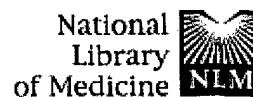
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☐ 1: Miller WM, Wilke CR, Blanch HW.[Related Articles, Links](#)**Effects of dissolved oxygen concentration on hybridoma growth and metabolism in continuous culture.**

J Cell Physiol. 1987 Sep;132(3):524-30.

PMID: 3654764 [PubMed - indexed for MEDLINE]

☐ 2: Reuveny S, Velez D, Macmillan JD, Miller L.[Related Articles, Links](#)**Factors affecting cell growth and monoclonal antibody production in stirred reactors.**

J Immunol Methods. 1986 Jan 22;86(1):53-9.

PMID: 3944469 [PubMed - indexed for MEDLINE]

☐ 3: Reuveny S, Velez D, Riske F, MacMillan JD, Miller L.[Related Articles, Links](#)**Production of monoclonal antibodies in culture.**

Dev Biol Stand. 1985;60:185-97.

PMID: 3930316 [PubMed - indexed for MEDLINE]

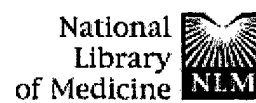
☐ 4: Mizrahi A, Vosseller GV, Yagi Y, Moore GE.[Related Articles, Links](#)**The effect of dissolved oxygen partial pressure on growth, metabolism and immunoglobulin production in a permanent human lymphocyte cell line culture.**

Proc Soc Exp Biol Med. 1972 Jan;139(1):118-22. No abstract available.

PMID: 5007446 [PubMed - indexed for MEDLINE]

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☐ **1:** Ohwada T, Sagisaka S.

Related Articles, Links

**An immediate and steep increase in ATP concentration in response to reduced turgor pressure in Escherichia coli B.**  
Arch Biochem Biophys. 1987 Nov 15;259(1):157-63.  
PMID: 3318698 [PubMed - indexed for MEDLINE]

☐ **2:** Zimmerberg J, Parsegian VA.

Related Articles, Links

**Water movement during channel opening and closing.**  
J Bioenerg Biomembr. 1987 Aug;19(4):351-8. Review.  
PMID: 2442149 [PubMed - indexed for MEDLINE]

☐ **3:** Furst P, Albers S, Stehle P.

Related Articles, Links

**Stress-induced intracellular glutamine depletion. The potential use of glutamine-containing peptides in parenteral nutrition.**  
Beitr Infusionther Klin Ernahr. 1987;17:117-36. Review.  
PMID: 3120690 [PubMed - indexed for MEDLINE]

☐ **4:** Ballantyne JS, Moon TW.

Related Articles, Links

**Solute effects on mitochondria from an elasmobranch (Raja erinacea) and a teleost (Pseudopleuronectes americanus).**  
J Exp Zool. 1986 Sep;239(3):319-28.  
PMID: 2876050 [PubMed - indexed for MEDLINE]

☐ **5:** Ross MG, Ervin MG, Leake RD, Habeeb O, Fisher DA.

Related Articles, Links

**Isovolemic hypotension in ovine fetus: plasma arginine vasopressin response and urinary effects.**  
Am J Physiol. 1986 May;250(5 Pt 1):E564-9.  
PMID: 3706522 [PubMed - indexed for MEDLINE]

☐ **6:** Schneiderman R, Keret D, Maroudas A.

Related Articles, Links

**Effects of mechanical and osmotic pressure on the rate of glycosaminoglycan synthesis in the human adult femoral head cartilage: an in vitro study.**  
J Orthop Res. 1986;4(4):393-408.  
PMID: 3097285 [PubMed - indexed for MEDLINE]

☐ **7:** Mow VC, Mak AF, Lai WM, Rosenberg LC, Tang LH.


Related Articles, Links

**Viscoelastic properties of proteoglycan subunits and aggregates in varying solution concentrations.**  
J Biomech. 1984;17(5):325-38.  
PMID: 6736068 [PubMed - indexed for MEDLINE]

Lindquist B, Svenningsen NW.


Related Articles, Links

▢ 8:

-  Acid-base homeostasis of low-birth-weight and full-term infants in early life.  
J Pediatr Gastroenterol Nutr. 1983;2 Suppl 1:S99-107.  
PMID: 6644482 [PubMed - indexed for MEDLINE]


▢ 9: Ware J, Ljungqvist O, Norberg KA, Nylander G.

[Related Articles](#), [Links](#)

-  Osmolar changes in haemorrhage: the effects of an altered nutritional status.  
Acta Chir Scand. 1982;148(8):641-6.  
PMID: 7170899 [PubMed - indexed for MEDLINE]


▢ 10: Convertino VA, Keil LC, Bernauer EM, Greenleaf JE.

[Related Articles](#), [Links](#)

-  Plasma volume, osmolality, vasopressin, and renin activity during graded exercise in man.  
J Appl Physiol. 1981 Jan;50(1):123-8.  
PMID: 7009522 [PubMed - indexed for MEDLINE]


▢ 11: Schrier RW, Berl T, Anderson RJ.

[Related Articles](#), [Links](#)

-  Osmotic and nonosmotic control of vasopressin release.  
Am J Physiol. 1979 Apr;236(4):F321-32. Review.  
PMID: 373467 [PubMed - indexed for MEDLINE]

▢ 12: Glen AI, Halliburton IM, MacDonald AC.

[Related Articles](#), [Links](#)

-  The effect of stress and of mild dehydration on renal solute output in angioneurotic and periodic oedema.  
J Psychosom Res. 1969 Mar;13(1):61-6. No abstract available.  
PMID: 5777001 [PubMed - indexed for MEDLINE]

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L9	(cell adj culture and cell adj grow\$) and ((solute adj stress) or stress or osmolar\$ or hyperton\$)	6677	L9
L8	(optimal same product\$) same (cell adj culture and cel adj grow\$) and ((solute adj stress) or stress or osmolar\$)	0	L8
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L11: Entry 1 of 35

File: PGPB

Nov 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030211579

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030211579 A1

TITLE: Methods for increasing polypeptide production

PUBLICATION-DATE: November 13, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Van Ness, Kirk P.	Seattle	WA	US	
Trentalange, Michael T.	Seattle	WA	US	
Dell, Bradley D.	Seattle	WA	US	
McGrew, Jeffrey T.	Seattle	WA	US	

US-CL-CURRENT: [435/69.1](#); [435/320.1](#), [435/358](#), [530/350](#), [530/387.1](#)

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**2. Document ID: US 20030166289 A1**

L11: Entry 2 of 35

File: PGPB

Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030166289

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030166289 A1

TITLE: Compositions and methods for regulating bacterial pathogenesis

PUBLICATION-DATE: September 4, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bassler, Bonnie L.	Princeton	NJ	US	
Surette, Michael G.	Calgary		CA	

US-CL-CURRENT: [435/471](#); [435/252.3](#)

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>
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**3. Document ID: US 20030148414 A1**

L11: Entry 3 of 35

File: PGPB

Aug 7, 2003

PGPUB-DOCUMENT-NUMBER: 20030148414  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030148414 A1

TITLE: COMPOSITIONS AND METHODS FOR REGULATING BACTERIAL PATHOGENESIS

PUBLICATION-DATE: August 7, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
BASSLER, BONNIE L.	Princeton	NJ	US	
SURETTE, MICHAEL G.	Calgary		CA	

US-CL-CURRENT: 435/32; 435/252.1, 514/678, 568/413

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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4. Document ID: US 20030108860 A1

L11: Entry 4 of 35

File: PGPB

Jun 12, 2003

PGPUB-DOCUMENT-NUMBER: 20030108860  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030108860 A1

TITLE: Method for large scale production of virus antigen

PUBLICATION-DATE: June 12, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Reiter, Manfred	Vienna		AT	
Mundt, Wolfgang	Vienna		AT	

US-CL-CURRENT: 435/5; 424/204.1, 435/235.1, 435/237, 435/239, 536/23.72

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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5. Document ID: US 20030104606 A1

L11: Entry 5 of 35

File: PGPB

Jun 5, 2003

PGPUB-DOCUMENT-NUMBER: 20030104606  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030104606 A1

TITLE: Compositions and methods for regulating bacterial pathogenesis

PUBLICATION-DATE: June 5, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bassler, Bonnie L.	Princeton	NJ	US	
Surette, Michael G.	Calgary		CA	

US-CL-CURRENT: 435/252.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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6. Document ID: US 20030096376 A1

L11: Entry 6 of 35

File: PGPB

May 22, 2003

PGPUB-DOCUMENT-NUMBER: 20030096376  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030096376 A1

TITLE: Compositions and methods for regulating bacterial pathogenesis

PUBLICATION-DATE: May 22, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bassler, Bonnie L.	Princeton	NJ	US	
Surette, Michael G.	Calgary		CA	

US-CL-CURRENT: 435/88

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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7. Document ID: US 20030096330 A1

L11: Entry 7 of 35

File: PGPB

May 22, 2003

PGPUB-DOCUMENT-NUMBER: 20030096330  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030096330 A1

TITLE: Compositions and methods for regulating bacterial pathogenesis

PUBLICATION-DATE: May 22, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bassler, Bonnie L.	Princeton	NJ	US	
Surette, Michael G.	Calgary		CA	

US-CL-CURRENT: 435/7.32; 435/252.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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8. Document ID: US 20020119530 A1

L11: Entry 8 of 35

File: PGPB

Aug 29, 2002

PGPUB-DOCUMENT-NUMBER: 20020119530  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020119530 A1

TITLE: Method of increasing product expression through solute stress

PUBLICATION-DATE: August 29, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Maiorella, Brian	Oakland	CA	US	
Inlow, Duane	Oakland	CA	US	
Howarth, William	Richmond	CA	US	

US-CL-CURRENT: 435/70.21; 435/366

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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## 9. Document ID: US 20020107364 A1

L11: Entry 9 of 35

File: PGPB

Aug 8, 2002

PGPUB-DOCUMENT-NUMBER: 20020107364

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020107364 A1

TITLE: Compositions and methods for regulating bacterial pathogenesis

PUBLICATION-DATE: August 8, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bassler, Bonnie L.	Princeton	NJ	US	
Surette, Michael G.	Calgary		CA	

US-CL-CURRENT: 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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## 10. Document ID: US 20020072052 A1

L11: Entry 10 of 35

File: PGPB

Jun 13, 2002

PGPUB-DOCUMENT-NUMBER: 20020072052

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020072052 A1

TITLE: Compositions and methods for regulating bacterial pathogenesis

PUBLICATION-DATE: June 13, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bassler, Bonnie L.	Princeton	NJ	US	
Surette, Michael G.	Calgary		CA	

US-CL-CURRENT: 435/4; 435/29

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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## 11. Document ID: US 20020062151 A1

L11: Entry 11 of 35

File: PGPB

May 23, 2002

PGPUB-DOCUMENT-NUMBER: 20020062151  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020062151 A1

TITLE: Bioengineered anterior cruciate ligament

PUBLICATION-DATE: May 23, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Altman, Gregory	Medford	MA	US	
Kaplan, David	Concord	MA	US	
Vunjak-Novakovic, Gordana	Belmont	MA	US	
Martin, Ivan	Oberwil		CH	

US-CL-CURRENT: 623/13.17; 435/395, 623/13.12, 623/915

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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## 12. Document ID: US 20010044146 A1

L11: Entry 12 of 35

File: PGPB

Nov 22, 2001

PGPUB-DOCUMENT-NUMBER: 20010044146  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20010044146 A1

TITLE: Method for enhanced protein stabilization and for production of cell lines useful for production of such stabilized proteins

PUBLICATION-DATE: November 22, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dees, H. Craig	Knoxville	TN	US	
Smolik, John	Loudon	TN	US	

US-CL-CURRENT: 435/235.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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## 13. Document ID: US 20010041361 A1

L11: Entry 13 of 35

File: PGPB

Nov 15, 2001

PGPUB-DOCUMENT-NUMBER: 20010041361  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20010041361 A1

TITLE: Method for enhanced protein stabilization and for production of cell lines useful for production of such stabilized proteins

PUBLICATION-DATE: November 15, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dees, H. Craig	Knoxville	TN	US	
Smolik, John	Loudon	TN	US	

US-CL-CURRENT: 435/235.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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## 14. Document ID: US 20010041354 A1

L11: Entry 14 of 35

File: PGPB

Nov 15, 2001

PGPUB-DOCUMENT-NUMBER: 20010041354

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010041354 A1

TITLE: Method for enhanced protein stabilization and for production of cell lines useful for production of such stabilized proteins

PUBLICATION-DATE: November 15, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dees, H. Craig	Knoxville	TN	US	
Smolik, John	Loudon	TN	US	

US-CL-CURRENT: 435/69.1; 435/235.1, 435/456

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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## 15. Document ID: US 6656466 B1

L11: Entry 15 of 35

File: USPT

Dec 2, 2003

US-PAT-NO: 6656466

DOCUMENT-IDENTIFIER: US 6656466 B1

TITLE: Human tumor necrosis factor--immunoglobulin(TNFR1-IgG1) chimera composition

DATE-ISSUED: December 2, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Etcheverry; Tina	Berkeley	CA		
Ryll; Thomas	San Mateo	CA		

US-CL-CURRENT: 424/134.1; 424/130.1, 424/133.1, 424/142.1, 424/145.1, 514/2, 514/8, 530/350, 530/387.1, 530/387.3, 530/395

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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## 16. Document ID: US 6541223 B2

L11: Entry 16 of 35

File: USPT

Apr 1, 2003

US-PAT-NO: 6541223

DOCUMENT-IDENTIFIER: US 6541223 B2

TITLE: Method for enhanced protein stabilization and for production of cell lines  
useful for production of such stabilized proteins

DATE-ISSUED: April 1, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dees; H. Craig	Knoxville	TN		
Smolik; John	Loudon	TN		

US-CL-CURRENT: 435/69.1; 435/235.1, 435/325, 435/339, 435/366, 435/367, 435/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMK	Draw Desc	Image
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## 17. Document ID: US 6495360 B1

L11: Entry 17 of 35

File: USPT

Dec 17, 2002

US-PAT-NO: 6495360

DOCUMENT-IDENTIFIER: US 6495360 B1

TITLE: Method for enhanced protein stabilization and for production of cell lines  
useful for production of such stabilized proteins

DATE-ISSUED: December 17, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dees; H. Craig	Knoxville	TN		
Smolik; John	Loudon	TN		

US-CL-CURRENT: 435/235.1; 435/239, 435/320.1, 435/455

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMK	Draw Desc	Image
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## 18. Document ID: US 6468777 B2

L11: Entry 18 of 35

File: USPT

Oct 22, 2002

US-PAT-NO: 6468777

DOCUMENT-IDENTIFIER: US 6468777 B2

TITLE: Method for enhanced protein stabilization and for production of cell lines  
useful for production of such stabilized proteins

DATE-ISSUED: October 22, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dees; H. Craig	Knoxville	TN		
Smolik; John	Loudon	TN		

US-CL-CURRENT: [435/235.1](#); [435/199](#), [435/239](#), [435/325](#), [435/456](#), [435/69.1](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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19. Document ID: US 6461863 B1

L11: Entry 19 of 35

File: USPT

Oct 8, 2002

US-PAT-NO: 6461863

DOCUMENT-IDENTIFIER: US 6461863 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Modifying insect cell glycosylation pathways with baculovirus expression vectors

DATE-ISSUED: October 8, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jarvis; Donald L.	Laramie	WY		

US-CL-CURRENT: [435/320.1](#); [435/325](#), [435/348](#), [435/69.1](#), [435/70.1](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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20. Document ID: US 6451597 B2

L11: Entry 20 of 35

File: USPT

Sep 17, 2002

US-PAT-NO: 6451597

DOCUMENT-IDENTIFIER: US 6451597 B2

TITLE: Method for enhanced protein stabilization and for production of cell lines useful for production of such stabilized proteins

DATE-ISSUED: September 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dees; H. Craig	Knoxville	TN		
Smolik; John	Loudon	TN		

US-CL-CURRENT: [435/325](#); [435/320.1](#), [435/455](#), [435/456](#), [435/69.1](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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21. Document ID: US 6372494 B1

L11: Entry 21 of 35

File: USPT

Apr 16, 2002

US-PAT-NO: 6372494

DOCUMENT-IDENTIFIER: US 6372494 B1

TITLE: Methods of making conditioned cell culture medium compositions



DATE-ISSUED: April 16, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Naughton; Gail K.	La Jolla	CA		
Mansbridge; Jonathan N.	La Jolla	CA		
Pinney; R. Emmett	Poway	CA		

US-CL-CURRENT: 435/391, 424/115, 424/198.1, 435/325, 435/347, 435/366, 435/368,  
435/370, 435/371, 435/372, 435/384, 435/395, 514/2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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## 22. Document ID: US 6238891 B1

L11: Entry 22 of 35

File: USPT

May 29, 2001

US-PAT-NO: 6238891

DOCUMENT-IDENTIFIER: US 6238891 B1

TITLE: Method of increasing product expression through solute stress

DATE-ISSUED: May 29, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Maiorella; Brian	Oakland	CA		
Inlow; Duane	Oakland	CA		
Howarth; William	Richmond	CA		

US-CL-CURRENT: 435/70.21, 435/252.3, 435/326, 435/69.1, 435/70.1, 530/386,  
530/388.1, 530/388.15, 530/412

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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## 23. Document ID: US 6210922 B1

L11: Entry 23 of 35

File: USPT

Apr 3, 2001

US-PAT-NO: 6210922

DOCUMENT-IDENTIFIER: US 6210922 B1

TITLE: Serum free production of recombinant proteins and adenoviral vectors

DATE-ISSUED: April 3, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cote ; M. T. Johanne	Pierrefonds			CA
Kamen; Amine A.	Montreal			CA
Massie; Bernard	Laval			CA

US-CL-CURRENT: 435/69.1, 435/366, 435/369, 435/455, 435/463, 435/70.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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24. Document ID: US 6180401 B1

L11: Entry 24 of 35

File: USPT

Jan 30, 2001

US-PAT-NO: 6180401

DOCUMENT-IDENTIFIER: US 6180401 B1

TITLE: Polypeptide production in animal cell culture

DATE-ISSUED: January 30, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chen; Mary	Burlingame	CA		
Forman; Lawrence W.	Sunnyvale	CA		

US-CL-CURRENT: 435/358; 435/325

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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25. Document ID: US 6022701 A

L11: Entry 25 of 35

File: USPT

Feb 8, 2000

US-PAT-NO: 6022701

DOCUMENT-IDENTIFIER: US 6022701 A

TITLE: Procedure for large-scale production of astaxanthin from haematococcus

DATE-ISSUED: February 8, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Boussiba; Sammy	Omer			IL
Vonshak; Avigad	Midreshet Sede-Boker			IL
Cohen; Zvi	Omer			IL
Richmond; Amos	Midreshet Sede-Boker			IL

US-CL-CURRENT: 435/67; 435/257.1

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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26. Document ID: US 6001585 A

L11: Entry 26 of 35

File: USPT

Dec 14, 1999

US-PAT-NO: 6001585

DOCUMENT-IDENTIFIER: US 6001585 A

TITLE: Micro hollow fiber bioreactor

DATE-ISSUED: December 14, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gramer; Michael J.	Lino Lakes	MN		

US-CL-CURRENT: 435/29; 435/182, 435/243, 435/289.1, 435/297.1, 435/297.4, 435/325,  
435/382, 435/400, 435/41

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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## └ 27. Document ID: US 5856179 A

L11: Entry 27 of 35

File: USPT

Jan 5, 1999

US-PAT-NO: 5856179

DOCUMENT-IDENTIFIER: US 5856179 A

TITLE: Polypeptide production in animal cell culture

DATE-ISSUED: January 5, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chen; Mary	Burlingame	CA		
Forman; Lawrence W.	Sunnyvale	CA		

US-CL-CURRENT: 435/325; 435/358, 435/360, 435/375, 435/69.1, 435/69.4, 435/69.5,  
435/69.6, 435/70.1, 435/70.3, 435/70.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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## └ 28. Document ID: US 5721121 A

L11: Entry 28 of 35

File: USPT

Feb 24, 1998

US-PAT-NO: 5721121

DOCUMENT-IDENTIFIER: US 5721121 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Mammalian cell culture process for producing a tumor necrosis factor receptor immunoglobulin chimeric protein

DATE-ISSUED: February 24, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Etcheverry; Tina	Berkeley	CA		
Ryll; Thomas	San Mateo	CA		

US-CL-CURRENT: 435/69.7; 435/325, 435/328, 435/358, 435/361, 530/387.3, 530/395

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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## └─ 29. Document ID: US 5705364 A

L11: Entry 29 of 35

File: USPT

Jan 6, 1998

US-PAT-NO: 5705364

DOCUMENT-IDENTIFIER: US 5705364 A

TITLE: Mammalian cell culture process

DATE-ISSUED: January 6, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Etcheverry; Tina	Berkeley	CA		
Ryll; Thomas	San Mateo	CA		

US-CL-CURRENT: 435/70.3; 435/375, 435/383, 435/395

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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## └─ 30. Document ID: US 5328844 A

L11: Entry 30 of 35

File: USPT

Jul 12, 1994

US-PAT-NO: 5328844

DOCUMENT-IDENTIFIER: US 5328844 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Culture media for mammalian cells

DATE-ISSUED: July 12, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moore; George E.	Conifer	CO		

US-CL-CURRENT: 435/405; 424/531, 435/244, 514/2, 514/21

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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## └─ 31. Document ID: US 5156964 A

L11: Entry 31 of 35

File: USPT

Oct 20, 1992

US-PAT-NO: 5156964

DOCUMENT-IDENTIFIER: US 5156964 A

TITLE: Methods for adapting cells for increased product production through exposure to ammonia

DATE-ISSUED: October 20, 1992

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Inlow; Duane	Oakland	CA		
Maiorella; Brian	Oakland	CA		
Shauger; Andrea E.	Albany	CA		

US-CL-CURRENT: 435/375; 530/350, 530/388.1, 530/388.15, 530/865

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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## └ 32. Document ID: WO 8904867 A1

L11: Entry 32 of 35

File: EPAB

Jun 1, 1989

PUB-NO: WO008904867A1

DOCUMENT-IDENTIFIER: WO 8904867 A1

TITLE: METHOD OF INCREASING PRODUCT EXPRESSION THROUGH SOLUTE STRESS

PUBN-DATE: June 1, 1989

INVENTOR-INFORMATION:

NAME	COUNTRY
MAIORELLA, BRIAN	US
INLOW, DUANE	US
HOWARTH, WILLIAM	US

US-CL-CURRENT: 435/70.21

INT-CL (IPC): C12N 5/00; C12P 21/00

EUR-CL (EPC): C12N005/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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## └ 33. Document ID: US 20020119530 A1

L11: Entry 33 of 35

File: DWPI

Aug 29, 2002

DERWENT-ACC-NO: 2003-776666

DERWENT-WEEK: 200373

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TITLE: Determining optimal level of product expression in animal cell cultures, by culturing cells under conditions of solute stress, so that optimal cell growth/growth rate is decreased and product expression is increased

INVENTOR: HOWARTH, W; INLOW, D ; MAIORELLA, B

PRIORITY-DATA: 1995US-0482421 (June 7, 1995), 1987US-0122015 (November 18, 1987), 2001US-0867948 (May 30, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20020119530 A1	August 29, 2002		013	C12P021/04

INT-CL (IPC): C12 N 5/08; C12 P 21/04

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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## 34. Document ID: US 6238891 B1

L11: Entry 34 of 35

File: DWPI

May 29, 2001

DERWENT-ACC-NO: 2001-366475

DERWENT-WEEK: 200373

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TITLE: Increasing protein expression in a cell culture, useful for increasing antibody production, comprises adding to the cell medium a solute inhibiting cell growth or density in an amount above the amount needed for optimal cell growth

INVENTOR: HOWARTH, W; INLOW, D ; MAIORELLA, B

PRIORITY-DATA: 1989US-0443445 (November 29, 1989), 1987US-0122015 (November 18, 1987), 1992US-0841906 (February 26, 1992), 1995US-0482421 (June 7, 1995)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 6238891 B1	May 29, 2001		012	C12P021/08

INT-CL (IPC): C12 N 5/16; C12 P 21/08

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMOC	Draw Desc	Image
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## 35. Document ID: WO 8904867 A AU 8928059 A CA 1312030 C

L11: Entry 35 of 35

File: DWPI

Jun 1, 1989

DERWENT-ACC-NO: 1989-178386

DERWENT-WEEK: 200373

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TITLE: Determining optimal prod. expression in animal cell culture - by varying solute concn. from that which is optimal for cell growth

INVENTOR: HOWARTH, W; INLOW, D ; MAIORELLA, B

PRIORITY-DATA: 1987US-0122015 (November 18, 1987)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 8904867 A	June 1, 1989	E	033	
AU 8928059 A	June 14, 1989		000	
CA 1312030 C	December 29, 1992		000	C12N005/12

INT-CL (IPC): C12N 5/00; C12N 5/12; C12P 21/00; C12R 11/91; G01N 33/48

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMOC	Draw Desc	Image
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(L10 AND (OPTIMAL SAME PRODUCT\$)).USPT,PGPB,EPAB,DWPI,TDBD.	35

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